

Title (en)
Shock absorbing type steering column apparatus

Title (de)
Stossenergie aufnehmende Lenksäule

Title (fr)
Colonne de direction à absorption d'énergie de choc

Publication
EP 1184253 A1 20020306 (EN)

Application
EP 01307325 A 20010829

Priority
JP 2000259145 A 20000829

Abstract (en)
A shock absorbing type steering column apparatus including a collision energy absorbing mechanism (7) for absorbing a secondary collision energy of an occupant upon a collision of a vehicle, comprises an energy absorption quantity adjusting device (39) for changing an absorption quantity of the secondary collision energy absorbed by the collision energy absorbing mechanism (7), at least one of operation state detecting sensors (67,69,71,73,75) for detecting a state of the occupant or of the vehicle, a collision detecting sensor (77) for detecting the collision of the vehicle, and an electric control device (57) for controlling a drive of the energy absorption quantity adjusting device (39) on the basis of a result of the detection by the operation state detecting sensor at the point of time when the collision detecting sensor (77) detects the collision of the vehicle. <IMAGE>

IPC 1-7
B62D 1/19

IPC 8 full level
B60R 21/05 (2006.01); **B62D 1/19** (2006.01)

CPC (source: EP US)
B62D 1/192 (2013.01 - EP US)

Citation (search report)
• [X] WO 9958389 A1 19991118 - INOVA GMBH TECH ENTWICKLUNGEN [DE], et al
• [X] DE 19829237 A1 19990107 - VOLKSWAGEN AG [DE]
• [PX] EP 1101687 A1 20010523 - NACAM [FR]
• [X] "Computer controlled energy absorbing steering column for automotive use", RESEARCH DISCLOSURE, vol. 2244, no. 359, March 1994 (1994-03-01), Emsworth, GB, pages 158 - 159, XP000440547

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EP1612122A3; EP2910452A3; DE10154608A1; DE10154608B4; US7422239B2; WO2004103796A1

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